

## EXAMPLE SCENARIO 4 Option 1

TABLE 2.1  
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN  
The Dean Company

Scenario Timeframe: Future
Medium: Sediment
Exposure Medium: Fish Tissue

Exposure Point	CAS Number	Chemical	Minimum Concentration (1) (Qualifier)	Maximum Concentration (1) (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (2)	Background Value (3)	Screening Toxicity Value (4) (N/C)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion (5)
Trout	11096825	Arochlor 1260	0.6 J	5.5 J	mg/kg	SD01	3 / 10	0.1 - 0.2	0.005	NA	0.0016 (C)	NA	NA	Y	ASL
	7439921	Lead	210 J	500 J	mg/kg	SD03	5 / 10	10 - 16	0.007	NA	NA	NA	NA	Y	NTX
	1746016	2,3,7,8-Tetrachlorodibenzodioxin	0.000001 J	0.00005 J	mg/kg	SD01	4 / 10	0.000001 - 0.000001	0.00000005	NA	0.000000021 (C)	NA	NA	Y	ASL

- (1) Measured sediment concentrations.
- (2) Concentrations used for screening are fish tissue values derived from the X model. Refer to the risk assessment text for details on the model methodology.
- (3) To date, no background study has been completed.
- (4) All compounds were screened against the Risk-Based Concentration (RBC) Table, U.S. EPA Region III, May 8, 2001 for fish tissue (cancer benchmark = 1E-06; HQ = 0.1).
- (5) Rationale Codes:
- Selection Reason:      Above Screening Level (ASL)
- No Toxicity Information (NTX)

## EXAMPLE SCENARIO 4 Option 2

TABLE 2.1  
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN  
The Dean Company

Scenario Timeframe: Future
Medium: Sediment
Exposure Medium: Fish Tissue

Exposure Point	CAS Number	Chemical	Minimum Concentration (1) (Qualifier)	Maximum Concentration (1) (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Background Value (2)	Screening Toxicity Value (3) (N/C)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
Trout	11096825	Arochlor 1260	0.6 J	5.5 J	mg/kg	SD01	3 / 10	0.1 - 0.2	5.5	NA	3.2 (C)	NA	NA	Y	ASL
	7439921	Lead	210 J	500 J	mg/kg	SD03	5 / 10	10 - 16	500	NA	400	NA	NA	Y	ASL
	1746016	2,3,7,8-Tetrachlorodibenzodioxin	0.000001 J	0.00005 J	mg/kg	SD01	4 / 10	0.000001 - 0.000001	0.00005	NA	0.000043 (C)	NA	NA	Y	ASL

- (1) Measured sediment concentrations are shown and maximum concentrations are used for screening. These data will be used as input in the X model to predict fish tissue concentrations. Refer to the risk assessment text for details on the model methodology.
- (2) To date, no background study has been completed.
- (3) All compounds were screened against the Risk-Based Concentration (RBC) Table, U.S. EPA Region III, May 8, 2001 for 10 times the residential soil value (cancer benchmark = 10 x 1E-06; HQ = 10 x 0.1). Lead was screened against the U.S. EPA screening value of 400 mg/kg.
- (4) Rationale Codes:
- Selection Reason:      Above Screening Level (ASL)

Definitions:

NA = Not Applicable

COPC = Chemical of Potential Concern

ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered

J = Estimated Value

C = Carcinogen

N = Noncarcinogen